

## **SYSTEM AND METHOD FOR DE-INTERLEAVING DATA IN A WIRELESS RECEIVER**

### **Abstract**

A system and method for de-interleaving data in a wireless receiver, wherein a single memory buffer is coupled to a read/write unit that performs both first and second de-interleaving operations. According to a first aspect of the present invention, the read/write unit performs the second de-interleaving operation as data is written to the memory buffer, and performs the first de-interleaving operation as data is read from the memory buffer. According to a second aspect of the present invention, the read/write unit performs the first and second de-interleaving operations as data is read from the memory buffer.

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